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DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration

RIN 0648-XD602

Takes of Marine Mammals Incidental to Specified Activities; Taking Marine Mammals Incidental to Rocky Intertidal Monitoring Surveys on the South Farallon Islands, California
AGENCY: National Marine Fisheries Service (NMFS), National Oceanic and Atmospheric Administration (NOAA), Commerce.

ACTION: Notice; proposed incidental harassment authorization; request for comments.

SUMMARY: NMFS has received an application from the National Ocean Service's Office of National Marine Sanctuaries Gulf of the Farallones National Marine Sanctuary (GFNMS) for an Incidental Harassment Authorization (IHA) to take marine mammals, by harassment, incidental to rocky intertidal monitoring work and searching for black abalone, components of the Sanctuary Ecosystem Assessment Surveys. Pursuant to the Marine Mammal Protection Act (MMPA), NMFS is requesting comments on its proposal to issue an IHA to GFNMS to incidentally take, by Level B harassment only, marine mammals during the specified activity.

DATES: Comments and information must be received no later than [INSERT DATE 30 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

ADDRESSES: Comments on the application should be addressed to Jolie Harrison, Chief, Permits and Conservation Division, Office of Protected Resources, National Marine Fisheries Service, 1315 East-West Highway, Silver Spring, MD 20910. The mailbox address for providing email comments is ITP.Pauline@noaa.gov. NMFS is not responsible for e-mail comments sent to addresses other than the one provided here. Comments sent via e-mail,

including all attachments, must not exceed a 25-megabyte file size.

Instructions: All comments received are a part of the public record and will generally be posted to <http://www.nmfs.noaa.gov/pr/permits/incidental/> without change. All Personal Identifying Information (e.g., name, address) voluntarily submitted by the commenter may be publicly accessible. Do not submit Confidential Business Information or otherwise sensitive or protected information.

An electronic copy of the application containing a list of the references used in this document may be obtained by writing to the address specified above, telephoning the contact listed below (see FOR FURTHER INFORMATION CONTACT), or visiting the internet at: <http://www.nmfs.noaa.gov/pr/permits/incidental/>. Documents cited in this notice may also be viewed, by appointment, during regular business hours, at the aforementioned address.

FOR FURTHER INFORMATION CONTACT: Rob Pauline, Office of Protected Resources, NMFS, (301) 427-8401.

SUPPLEMENTARY INFORMATION:

Background

Sections 101(a)(5)(A) and (D) of the MMPA (16 U.S.C. 1361 et seq.) direct the Secretary of Commerce to allow, upon request, the incidental, but not intentional, taking of small numbers of marine mammals by U.S. citizens who engage in a specified activity (other than commercial fishing) within a specified geographical region if certain findings are made and either regulations are issued or, if the taking is limited to harassment, a notice of a proposed authorization is provided to the public for review.

Authorization for incidental takings shall be granted if NMFS finds that the taking will have a negligible impact on the species or stock(s), will not have an unmitigable adverse impact

on the availability of the species or stock(s) for subsistence uses (where relevant), and if the permissible methods of taking, other means of effecting the least practicable impact on the species or stock and its habitat, and requirements pertaining to the mitigation, monitoring and reporting of such takings are set forth. NMFS has defined “negligible impact” in 50 CFR 216.103 as “...an impact resulting from the specified activity that cannot be reasonably expected to, and is not reasonably likely to, adversely affect the species or stock through effects on annual rates of recruitment or survival.”

Except with respect to certain activities not pertinent here, the MMPA defines “harassment” as: “any act of pursuit, torment, or annoyance which (i) has the potential to injure a marine mammal or marine mammal stock in the wild [Level A harassment]; or (ii) has the potential to disturb a marine mammal or marine mammal stock in the wild by causing disruption of behavioral patterns, including, but not limited to, migration, breathing, nursing, breeding, feeding, or sheltering [Level B harassment].”

Summary of Request

On August 18, 2014, NMFS received an application from GFNMS for the taking of marine mammals incidental to rocky intertidal monitoring work and searching for black abalone. NMFS determined that the application was adequate and complete on August 29, 2014.

GFNMS proposes to continue rocky intertidal monitoring work and the search for black abalone in areas previously unexplored for black abalone from January 16 through January 23, 2015. All work will be done only during daylight minus low tides. This is a long-term study that began in 1992. This IHA, if issued, would be effective from January 10 through January 30, 2015, to allow for flexibility in the sampling schedule. Twelve sites are proposed for sampling. The following specific aspects of the proposed activities are likely to result in the take

of marine mammals: presence of survey personnel near pinniped haulout sites and approach of survey personnel towards hauled out pinnipeds. Take, by Level B harassment only, of individuals of five species of marine mammals is anticipated to result from the specified activity.

NMFS previously issued an IHA to GFNMS for this activity on November 8, 2012. The IHA was effective from November 8, 2012, through November 7, 2013. However, GFNMS did not conduct any abalone sampling during this time period. Therefore, no take occurred. NMFS subsequently issued a Federal Register Notice on November 27, 2013 for a proposed incidental harassment authorization for GFNMS to conduct monitoring activities from January 20 to February 8, 2014. GFNMS determined that it would be unable to undertake the described monitoring activities during that period. Therefore, an IHA was not issued, and no take occurred because the project did not go forward.

Description of the Specified Activity

Overview

Since the listing of black abalone as “endangered” under the U.S. Endangered Species Act (ESA; 16 U.S.C. 1531 et seq.), NMFS has requested that GFNMS explore as much of the shoreline as possible, as well as document and map the location of quality habitat for black abalone and the location of known animals. This listing prompted the need to expand the search for black abalone into other areas on the South Farallon Islands (beyond those that have been studied since 1992) to gain a better understanding of the abundance and health of the black abalone population in this remote and isolated location. The monitoring is planned to remain ongoing, and efforts to assess the status and health of the black abalone population on the South Farallon Islands may take several years, and perhaps decades. This is because black abalone tend to be very cryptic and difficult to find, especially when they are sparse and infrequent in

occurrence. In order for the assessment of black abalone to be more comprehensive, GFNMS needs to expand shore searches in areas beyond the proximity of their quantitative quadrat sampling areas and also into new areas on Southeast Farallon and Maintop (West End) Islands.

Rocky intertidal monitoring on the Farallon Islands is now a component of the GFNMS Sanctuary Ecosystem Assessment Surveys (SEAS) long-term monitoring program and is a necessity to the management and protection of the sanctuary. All GFNMS SEAS monitoring projects are designed to provide documentation on the density and biodiversity of sanctuary natural resources for condition analyses, particularly for a baseline in the event of a major natural or human-induced perturbation. This program has and continues to acquire information on seasonal and annual changes of intertidal species abundances in 1-3 visits per year. The monitoring data, decades from now, can also be used to assess trends and changes from global climate change and ocean acidification, based on range extensions, changes in biodiversity, and changes in density of calcium carbonate-containing organisms.

Detailed Description of Activities

Routine shore activity will continue to involve the use of only non-destructive sampling methods to monitor rocky intertidal algal and invertebrate species abundances (see Figure 2 in GFNMS' application). At each sampling site, there are three to four permanent 30 x 50 cm (12 x 20 in) quadrat sites that occur in the low, middle, and upper elevation tidal zones (marked by white epoxy pads in the quadrat corners). Three to four random quadrats (unmarked) are also sampled at each site every survey, if time permits. Fifty randomly selected points within each permanent and random quadrat are sampled, using methods described by Foster et al. (1991) and Dethier et al. (1993). All algal and sessile macroinvertebrate species under each sampling point (loci) are recorded. A photograph is also taken of each labeled quadrat. When completed, a

shore walk in the immediate proximity is done by the sampling team to search for select large invertebrates. The length of the shoreline searched in the shore walks is typically about 30 m (98 ft), but plans are to expand this search effort over larger areas for abalone and in more areas.

Inaccessible shore areas will be surveyed by boat up to once each year, dependent on boat availability and weather conditions. This effort includes the Middle and North Farallon Islands. In this effort, the boat navigates to within 15-100 m (49-328 ft) of the shore, and intertidal species that can be seen through binoculars are recorded (presence/absence). Point Blue (formerly named PRBO Conservation Science) continues its year round pinniped and seabird research and monitoring efforts on the South Farallon Islands, which began in 1968, under MMPA scientific research permits and IHAs. GFNMS biologists will gain access to the sites via boats operated by Point Blue, with disturbance and incidental take authorized via IHAs issued to Point Blue. For this reason, GFNMS has not requested authorization for take from disturbance by boat, as incidental take from that activity is authorized in a separate IHA.

Dates and Duration

The sampling, photographic documentation, and shore walks for the period of this IHA have been scheduled to occur from January 16 through January 23, 2015. Each survey will last for approximately 4 to 8 days. All work will be done only during daylight minus, low tides. Each location (as listed in Tables 2 and 3 in GFNMS' application) will be visited/sampled by five to six biologists, for a duration of 3-4 hours, one to two times each minus tide cycle.

Specified Geographic Region

The Farallon Islands consists of a chain of seven islands located approximately 48 km (30 mi) west of San Francisco, near the edge of the continental shelf and in the geographic center of the GFNMS (see Figure 1 in GFNMS' application). The land of the islands above the mean high

tide mark is designated as the Farallon National Wildlife Refuge (managed by the U.S. Fish and Wildlife Service [USFWS]), while the shore and subtidal below are in GFNMS. The nearshore and offshore waters are foraging areas for pinniped species discussed in this document.

The two largest islands of the seven islands are the Southeast Farallon and Maintop (aka West End) Islands. These and several smaller rocks are collectively referred to as the South Farallon Islands and are the subject of this IHA request. The two largest islands are separated by only a 9 m (30 ft) wide surge channel. Together, these islands are approximately 49 hectares (120 acres) in size with an intertidal perimeter around both islands of 7.7 km (4.8 mi).

The areas proposed for sampling are: Blow Hole Peninsula; Mussel Flat; Dead Sea Lion Flat; Low Arch; Raven's Cliff; Drunk Uncle Islet; East Landing; North Landing; Fisherman's Bay; Weather Service Peninsula; Indian Head; and Shell Beach (see Figure 2 in GFNMS' application). Each sample site will be visited one to two times each minus tide cycle for 3-4 hours each visit.

The shorelines on these islands, including areas above the mean high tide elevation, have become more heavily used over time as haulout sites for pinnipeds to rest, give birth, and molt. The intertidal zones where GFNMS conducts intertidal monitoring are specific areas area also areas where pinnipeds can be found hauled out on the shore. Accessing portions of the intertidal habitat may cause incidental Level B (behavioral) harassment of pinnipeds through some unavoidable approaches if pinnipeds are hauled out directly in the study plots or while biologists walk from one location to another. No motorized equipment is involved in conducting these surveys. The species for which Level B harassment is requested are: California sea lions (Zalophus californianus californianus); harbor seals (Phoca vitulina richardii); northern elephant seals (Mirounga angustirostris); Stellar sea lions (Eumetopias jubatus); and northern fur seals

(Callorhinus ursinus).

Description of Marine Mammals in the Area of the Specified Activity

Many of the shores of the two South Farallon Islands provide resting, molting, and breeding habitat for pinniped species: northern elephant seals; harbor seals; California sea lions; northern fur seals; and Steller sea lions. California sea lion is the species anticipated to be encountered most frequently during the specified activity. The other four species are only anticipated to be encountered at some of the sites. Tables 2 and 3 in GFNMS' application outline the average and maximum expected occurrences of each species at each sampling location, respectively. Numbers in these tables are based on weekly surveys conducted by PRBO (now Point Blue) in January 2012 and 2013. Figures contained in Appendix I of GFNMS' application depict the overlap between pinniped haulouts and abalone sampling sites. None of the species noted here are listed as threatened and endangered under the ESA. On November 4, 2013, NMFS published a final rule delisting the eastern distinct population segment (DPS) of Steller sea lions (78 FR 66139). We have determined that this DPS has recovered and no longer meets the definition of an endangered or threatened species under the ESA. The Steller sea lions on the South Farallon Islands are part of the eastern DPS.

We refer the public to Carretta et al. (2014) and Allen and Angliss (2014) for general information on these species which are presented below this section. The publications are available on the internet at: http://www.nmfs.noaa.gov/pr/sars/pdf/pacific2013_final.pdf and http://www.nmfs.noaa.gov/pr/sars/pdf/ak2013_final.pdf. Additional information on the status, distribution, seasonal distribution, and life history can also be found in GFNMS' application.

Northern Elephant Seal

Northern elephant seals are not listed as threatened or endangered under the ESA, nor are

they categorized as depleted under the MMPA. The estimated population of the California breeding stock is approximately 124,000 animals with a minimum estimate of 74,913 (Carretta et. al., 2014).

Northern elephant seals range in the eastern and central North Pacific Ocean, from as far north as Alaska and as far south as Mexico. Northern elephant seals spend much of the year, generally about nine months, in the ocean. They are usually underwater, diving to depths of about 330-800 m (1,000-2,500 ft) for 20- to 30-minute intervals with only short breaks at the surface. They are rarely seen out at sea for this reason. While on land, they prefer sandy beaches.

Northern elephant seals breed and give birth in California (U.S.) and Baja California (Mexico), primarily on offshore islands (Stewart et al., 1994), from December to March (Stewart and Huber, 1993). Males feed near the eastern Aleutian Islands and in the Gulf of Alaska, and females feed further south, south of 45° N (Stewart and Huber, 1993; Le Boeuf et al., 1993). Adults return to land between March and August to molt, with males returning later than females. Adults return to their feeding areas again between their spring/summer molting and their winter breeding seasons.

The population on the Farallon Islands has declined by 3.4 percent per year since 1983, and in recent years numbers have fluctuated between 100 and 200 pups (PRBO, unpubl. data). At Southeast Farallon, the population consists of approximately 500 animals (GFNMS, 2012).

California Sea Lion

California sea lions are not listed as threatened or endangered under the ESA, nor are they categorized as depleted under the MMPA. The California sea lion is now a full species, separated from the Galapagos sea lion (Z. wollebaeki) and the extinct Japanese sea lion (Z.

japonicus) (Brunner, 2003; Wolf et al., 2007; Schramm et al., 2009). The estimated population of the U.S. stock of California sea lion is approximately 296,750 animals, and the current maximum population growth rate is 12 percent (Carretta et al., 2014). On the Farallon Islands, California sea lions haul out in many intertidal areas year round, fluctuating from several hundred to several thousand animals.

California sea lion breeding areas are on islands located in southern California, in western Baja California, Mexico, and the Gulf of California. During the breeding season, most California sea lions inhabit southern California and Mexico. Rookery sites in southern California are limited to the San Miguel Islands and the southerly Channel Islands of San Nicolas, Santa Barbara, and San Clemente (Carretta et. al., 2014). Males establish breeding territories during May through July on both land and in the water. Females come ashore in mid-May and June where they give birth to a single pup approximately 4-5 days after arrival and will nurse pups for about a week before going on their first feeding trip. Females will alternate feeding trips with nursing bouts until the pup is weaned between 4 and 10 months of age (NMML, 2010). In central California, a small number of pups are born on Ano Nuevo Island, Southeast Farallon Island, and occasionally at a few other locations; otherwise, the central California population is composed of non-breeders. Breeding animals on the Farallon Islands are concentrated in areas where researchers generally do not visit (PRBO, unpub. data).

Pacific Harbor Seal

Pacific harbor seals are not listed as threatened or endangered under the ESA, nor are they categorized as depleted under the MMPA. The estimated population of the California stock of Pacific harbor seals is approximately 30,196 animals (Carretta et. al., 2014).

The animals inhabit near-shore coastal and estuarine areas from Baja California, Mexico,

to the Pribilof Islands in Alaska. Pacific harbor seals are divided into two subspecies: P. v. stejnegeri in the western North Pacific, near Japan, and P. v. richardii in the northeast Pacific Ocean. The latter subspecies, recognized as three separate stocks, inhabits the west coast of the continental U.S., including: the outer coastal waters of Oregon and Washington states; Washington state inland waters; and Alaska coastal and inland waters.

In California, over 500 harbor seal haulout sites are widely distributed along the mainland and offshore islands, and include rocky shores, beaches and intertidal sandbars (Lowry et al., 2005). On the Farallon Islands, approximately 40 to 120 Pacific harbor seals haul out in the intertidal areas (PRBO, unpub. data). Harbor seals mate at sea, and females give birth during the spring and summer, although, the pupping season varies with latitude. Pups are nursed for an average of 24 days and are ready to swim minutes after being born. Harbor seal pupping takes place at many locations, and rookery size varies from a few pups to many hundreds of pups. Pupping generally occurs between March and June, and molting occurs between May and July (NCCOS, 2007).

Steller Sea Lion

Steller sea lions consist of two distinct population segments: the western and eastern DPSs divided at 144° West longitude (Cape Suckling, Alaska). The eastern DPS of the Steller sea lion was removed from the endangered species list in November 2013, and the western distinct population segment is listed as endangered under the ESA. The eastern DPS is the one anticipated to occur in the proposed project area. The eastern segment includes sea lions living in southeast Alaska, British Columbia, California, and Oregon.

Steller sea lions range along the North Pacific Rim from northern Japan to California (Loughlin et al., 1984), with centers of abundance and distribution in the Gulf of Alaska and

Aleutian Islands, respectively. The species is not known to migrate, but individuals disperse widely outside of the breeding season (late May through early July), thus potentially intermixing with animals from other areas.

In 2013, the estimated population of the eastern DPS ranged from 63,160 to 78,198 animals, and the maximum population growth rate is 12 percent (Allen and Angliss, 2014).

The eastern DPS of Steller sea lions breeds on rookeries located in southeast Alaska, British Columbia, Oregon, and California. There are no rookeries located in Washington State. Steller sea lions give birth in May through July, and breeding commences a couple of weeks after birth. Pups are weaned during the winter and spring of the following year.

Despite the wide-ranging movements of juveniles and adult males in particular, exchange between rookeries by breeding adult females and males (other than between adjoining rookeries) appears low, although males have a higher tendency to disperse than females (NMFS, 1995; Trujillo *et al.*, 2004; Hoffman *et al.*, 2006). A northward shift in the overall breeding distribution has occurred, with a contraction of the range in southern California and new rookeries established in southeastern Alaska (Pitcher *et al.*, 2007).

The current population of eastern Steller sea lions in the proposed research area is estimated to number between 50 and 750 animals. Overall, counts of non-pups at trend sites in California and Oregon have been relatively stable or increasing slowly since the 1980s (Allen and Angliss, 2011). On Southeast Farallon Island, the abundance of females declined an average of 3.6 percent per year from 1974 to 1997 (Sydeman and Allen, 1999). Pup counts on the Farallon Islands have generally varied from five to 15 (Hastings and Sydeman, 2002; PRBO unpub. data).

Northern Fur Seal

Northern fur seals are not listed as threatened or endangered under the ESA, nor are they categorized as depleted under the MMPA. Two stocks of northern fur seals are recognized in U.S. Pacific waters: Eastern Pacific stock and San Miguel Island stock. Adult females and juveniles migrate to the central California area (and Oregon and Washington) from rookeries on San Miguel Island in the Southern California Bight (Carretta et al., 2006) and from the Pribilof Islands in the Bering Sea (NCCOS, 2007).

The most recent population estimate of the San Miguel Island stock is 12,844 animals (Carretta et al., 2014) and is 639,545 animals for the Eastern Pacific stock (Allen and Angliss, 2014). The northern fur seal population on the Farallon Islands has fluctuated greatly over the past two centuries. Current PRBO weekly counts on Maintop Island show a peak of 296 adult and juvenile northern fur seals and 180 pups in 2011 (PRBO, unpub. data). Although it is difficult to differentiate, animals on the Farallon Islands during the time of the proposed rocky intertidal monitoring are likely from the San Miguel Island stock.

Other Marine Mammals in the Proposed Action Area

California (southern) sea otters (Enhydra lutris nereis), listed as threatened under the ESA and categorized as depleted under the MMPA, usually range in coastal waters within 2 km (1.2 mi) of shore. PRBO has not encountered California sea otters on Southeast Farallon Island during the course of seabird or pinniped research activities over the past five years. This species is managed by the USFWS and is not considered further in this notice.

Potential Effects of the Specified Activity on Marine Mammals

This section includes a summary and discussion of the ways that components (e.g., personnel presence) of the specified activity, including mitigation may impact marine mammals. The “Estimated Take by Incidental Harassment” section later in this document will include a

quantitative analysis of the number of individuals that are expected to be taken by this activity. The “Negligible Impact Analysis” section will include the analysis of how this specific activity will impact marine mammals and will consider the content of this section, the “Estimated Take by Incidental Harassment” section, the “Proposed Mitigation” section, and the “Anticipated Effects on Marine Mammal Habitat” section to draw conclusions regarding the likely impacts of this activity on the reproductive success or survivorship of individuals and from that on the affected marine mammal populations or stocks.

The appearance of researchers may have the potential to cause Level B harassment of any pinnipeds hauled out on Southeast Farallon and Maintop (West End) Islands. Although marine mammals are never deliberately approached by abalone survey personnel, approach may be unavoidable if pinnipeds are hauled out in the immediate vicinity of the permanent abalone study plots. Disturbance may result in reactions ranging from an animal simply becoming alert to the presence of researchers (e.g., turning the head, assuming a more upright posture) to flushing from the haul-out site into the water. NMFS does not consider the lesser reactions to constitute behavioral harassment, or Level B harassment takes, but rather assumes that pinnipeds that move greater than 1 m (3.3 ft) or change the speed or direction of their movement in response to the presence of researchers are behaviorally harassed, and thus subject to Level B taking. Animals that respond to the presence of researchers by becoming alert, but do not move or change the nature of locomotion as described, are not considered to have been subject to behavioral harassment.

Numerous studies have shown that human activity can flush harbor seals off haulout sites (Allen et al., 1984; Calambokidis et al., 1991; Suryan and Harvey, 1999). The Hawaiian monk seal (Monachus schauinslandi) has been shown to avoid beaches that have been disturbed often

by humans (Kenyon, 1972). And in one case, human disturbance appeared to cause Steller sea lions to desert a breeding area at Northeast Point on St. Paul Island, Alaska (Kenyon, 1962).

Typically, even those reactions constituting Level B harassment would result at most in temporary, short-term disturbance. Researchers will visit approximately 12 sites over an 8 day period with each site visit typically lasting 3-4 hours. Therefore, disturbance of pinnipeds resulting from the presence of researchers lasts only for short periods of time. Because such disturbance is sporadic, rather than chronic, and of low intensity, individual marine mammals are unlikely to incur any detrimental impacts to vital rates or ability to forage and, thus, loss of fitness. Correspondingly, even local populations, much less the overall stocks of animals, are extremely unlikely to accrue any significantly detrimental impacts.

There are three ways in which disturbance, as described previously, could result in more than Level B harassment of marine mammals. All three are most likely to be consequences of stampeding, a potentially dangerous occurrence in which large numbers of animals succumb to mass panic and rush away from a stimulus, an occurrence that is not expected on Southeast Farallon and Maintop Islands. The three situations are (1) falling when entering the water at high-relief locations; (2) extended separation of mothers and pups; and (3) crushing of elephant seal pups by large males during a stampede.

Because hauled-out animals may move towards the water when disturbed, there is the risk of injury if animals stampede towards shorelines with precipitous relief (e.g., cliffs). However, while cliffs do exist on the islands, shoreline habitats near the abalone study sites are of steeply sloping rocks with unimpeded and non-obstructive access to the water. If disturbed, hauled-out animals in these situations may move toward the water without risk of encountering barriers or hazards that would otherwise prevent them from leaving the area. In these

circumstances, the risk of injury, serious injury, or death to hauled-out animals is very low.

Thus, abalone research activity poses no risk that disturbed animals may fall and be injured or killed as a result of disturbance at high-relief locations.

The risk of marine mammal injury, serious injury, or mortality associated with abalone research increases somewhat if disturbances occur during breeding season. These situations present increased potential for mothers and dependent pups to become separated and, if separated pairs do not quickly reunite, the risk of mortality to pups (through starvation) may increase. Separately, adult male elephant seals may trample elephant seal pups if disturbed, which could potentially result in the injury, serious injury, or mortality of the pups. The risk of either of these situations is greater in the event of a stampede.

The proposed site visits in January fall outside of the pupping and breeding seasons for California sea lions, harbor seals, northern fur seals, and Steller sea lions. The most sensitive months for northern elephant seals are generally December through March. However, though elephant seal pups are occasionally present when researchers visit abalone survey sites, risk of pup mortalities is very low because elephant seals are far less reactive to researcher presence than the other two species. Further, pups are typically found on sand beaches, while study sites are located in the rocky intertidal zone, meaning that there is typically a buffer between researchers and pups. Finally, the caution used by researchers in approaching sites generally precludes the possibility of behavior, such as stampeding, that could result in extended separation of mothers and dependent pups or trampling of elephant seal pups. No research would occur where separation of mother and her nursing pup or crushing of pups can become a concern.

In summary, NMFS does not anticipate that the proposed activities would result in the

injury, serious injury, or mortality of pinnipeds because (1) the timing of research visits would preclude separation of mothers and pups for four of the pinniped species, as activities occur outside of the pupping/breeding season and (2) elephant seals are generally not susceptible to disturbance as a result of researchers' presence. In addition, researchers will exercise appropriate caution approaching sites, especially when pups are present and will redirect activities when pups are present.

Anticipated Effects on Marine Mammal Habitat

The only habitat modification associated with the proposed activity is the quadrat locations being marked with marine epoxy. The plot corners are marked with a 3x3 cm (1.2x1.2 in) patch of marine epoxy glued to the benchrock for relocating the quadrat sites. Markers have been in place since 1993, and pinniped populations have increased throughout the islands during this time. Maintenance is sometimes required, which consists of replenishing worn markers with fresh epoxy or replacing markers that have become dislodged. No gas power tools are used, so there is no potential for noise or accidental fuel spills disturbing animals and impacting habitats. Thus, the proposed activity is not expected to have any habitat-related effects, including to marine mammal prey species, that could cause significant or long-term consequences for individual marine mammals or their populations.

Proposed Mitigation

In order to issue an incidental take authorization (ITA) under section 101(a)(5)(D) of the MMPA, NMFS must set forth the permissible methods of taking pursuant to such activity, and other means of effecting the least practicable impact on such species or stock and its habitat, paying particular attention to rookeries, mating grounds, and areas of similar significance, and on the availability of such species or stock for taking for certain subsistence uses (where relevant).

Mitigation Measures

GFNMS proposes to implement several mitigation measures to reduce potential take by Level B (behavioral disturbance) harassment. Measures include: (1) coordinating sampling efforts with other permitted activities (i.e., Point Blue and USFWS); (2) conducting slow movements and staying close to the ground to prevent or minimize stampeding; (3) avoiding loud noises (i.e., using hushed voices); (4) vacating the area as soon as sampling of the site is completed; (5) monitoring the offshore area for predators (such as killer whales and white sharks) and avoid flushing of pinnipeds when predators are observed in nearshore waters; (6) using binoculars to detect pinnipeds before close approach to avoid being seen by animals; and (7) rescheduling work at sites where pups are present, unless other means to accomplishing the work can be done without causing disturbance to mothers and dependent pups.

The methodologies and actions noted in this section will be utilized and included as mitigation measures in any issued IHA to ensure that impacts to marine mammals are mitigated to the lowest level practicable. The primary method of mitigating the risk of disturbance to pinnipeds, which will be in use at all times, is the selection of judicious routes of approach to abalone study sites, avoiding close contact with pinnipeds hauled out on shore, and the use of extreme caution upon approach. In no case will marine mammals be deliberately approached by abalone survey personnel, and in all cases every possible measure will be taken to select a pathway of approach to study sites that minimizes the number of marine mammals potentially harassed. In general, researchers will stay inshore of pinnipeds whenever possible to allow maximum escape to the ocean. Each visit to a given study site will last for approximately 3-4 hours, after which the site is vacated and can be re-occupied by any marine mammals that may have been disturbed by the presence of abalone researchers. By arriving before low tide, worker

presence will tend to encourage pinnipeds to move to other areas for the day before they haul out and settle onto rocks at low tide.

The following measures are proposed for implementation to avoid disturbances to elephant seal pups. Disturbances to females with dependent pups can be mitigated to the greatest extent practicable by avoiding visits to those intertidal sites with pinnipeds that are actively nursing, with the exception of northern elephant seals. January has been selected as the time of year for conducting intertidal survey work in order to minimize the risk of harassment. This time of year avoids the disturbance to young, dependent pups, with the exception of northern elephant seals. Harassment of nursing northern elephant seal pups may occur but only to a limited extent. Disruption of nursing to northern elephant seal pups will occur only as biologists pass by the area. No flushing on nursing northern elephant seal pups will occur, and no disturbance to newborn northern elephant seals (pups less than one week old) will occur. Moreover, elephant seals have a much higher tolerance of nearby human activity than sea lions or harbor seals. In the event of finding pinnipeds breeding and nursing, the intertidal monitoring activities will be re-directed to sites where these activities and behaviors are not occurring. This mitigation measure will reduce the possibility of takes by harassment and further reduce the remote possibility of serious injury or mortality of dependent pups.

GFNMS will suspend sampling and monitoring operations immediately if an injured marine mammal is found in the vicinity of the project area and the abalone site sampling activities could aggravate its condition.

Mitigation Conclusions

NMFS has carefully evaluated GFNMS' proposed mitigation measures and considered a range of other measures in the context of ensuring that NMFS prescribes the means of effecting

the least practicable impact on the affected marine mammal species and stocks and their habitat. Our evaluation of potential measures included consideration of the following factors in relation to one another:

- The manner in which, and the degree to which, the successful implementation of the measure is expected to minimize adverse impacts to marine mammals;
- The proven or likely efficacy of the specific measure to minimize adverse impacts as planned; and
- The practicability of the measure for applicant implementation.

Any mitigation measure(s) prescribed by NMFS should be able to accomplish, have a reasonable likelihood of accomplishing (based on current science), or contribute to the accomplishment of one or more of the general goals listed below:

1. Avoidance or minimization of injury or death of marine mammals wherever possible (goals 2, 3, and 4 may contribute to this goal).
2. A reduction in the numbers of marine mammals (total number or number at biologically important time or location) exposed to activities expected to result in the take of marine mammals (this goal may contribute to 1, above, or to reducing harassment takes only).
3. A reduction in the number of times (total number or number at biologically important time or location) individuals would be exposed to activities expected to result in the take of marine mammals (this goal may contribute to 1, above, or to reducing harassment takes only).
4. A reduction in the intensity of exposures (either total number or number at biologically important time or location) to activities expected to result in the take of marine mammals (this goal may contribute to 1, above, or to reducing the severity of harassment takes only).
5. Avoidance or minimization of adverse effects to marine mammal habitat, paying

special attention to the food base, activities that block or limit passage to or from biologically important areas, permanent destruction of habitat, or temporary destruction/disturbance of habitat during a biologically important time.

6. For monitoring directly related to mitigation – an increase in the probability of detecting marine mammals, thus allowing for more effective implementation of the mitigation.

Based on our evaluation of the applicant’s proposed measures, NMFS has preliminarily determined that the proposed mitigation measures provide the means of effecting the least practicable impact on marine mammal species or stocks and their habitat, paying particular attention to rookeries, mating grounds, and areas of similar significance.

Proposed Monitoring and Reporting

In order to issue an ITA for an activity, section 101(a)(5)(D) of the MMPA states that NMFS must set forth “requirements pertaining to the monitoring and reporting of such taking”. The MMPA implementing regulations at 50 CFR 216.104 (a)(13) indicate that requests for ITAs must include the suggested means of accomplishing the necessary monitoring and reporting that will result in increased knowledge of the species and of the level of taking or impacts on populations of marine mammals that are expected to be present in the proposed action area. GFNMS submitted a marine mammal monitoring plan as part of the IHA application. It can be found in Section 13 of the application. The plan may be modified or supplemented based on comments or new information received from the public during the public comment period.

Monitoring measures prescribed by NMFS should accomplish one or more of the following general goals:

1. An increase in the probability of detecting marine mammals, both within the mitigation zone (thus allowing for more effective implementation of the mitigation) and in general to generate more data to contribute to the analyses mentioned below;
2. An increase in our understanding of how many marine mammals are likely to be exposed to levels of potential stressor(s) associated with the action (e.g. sound or visual stimuli) that we associate with specific adverse effects, such as behavioral harassment, TTS, or PTS;
3. An increase in our understanding of how marine mammals respond to stimuli expected to result in take and how anticipated adverse effects on individuals (in different ways and to varying degrees) may impact the population, species, or stock (specifically through effects on annual rates of recruitment or survival) through any of the following methods:
 - Behavioral observations in the presence of stimuli compared to observations in the absence of stimuli (need to be able to accurately predict received level, distance from source, and other pertinent information);
 - Physiological measurements in the presence of stimuli compared to observations in the absence of stimuli (need to be able to accurately predict received level, distance from source, and other pertinent information);
 - Distribution and/or abundance comparisons in times or areas with concentrated stimuli versus times or areas without stimuli;
4. An increased knowledge of the affected species; and
5. An increase in our understanding of the effectiveness of certain mitigation and monitoring measures.

Currently many aspects of pinniped research are being conducted by Point Blue scientists on the Farallon Islands, which includes elephant seal pup tagging and behavior observations with special notice to tagged animals. Additional observations are always desired, such as observations of pinniped carcasses bearing tags, as well as any rare or unusual marine mammal occurrences. GFNMS' observations and reporting will add to the observational database and ongoing marine mammal assessments on the Farallon Islands.

GFNMS can add to the knowledge of pinnipeds on the South Farallon Islands by noting observations of: (1) unusual behaviors, numbers, or distributions of pinnipeds, such that any potential follow-up research can be conducted by the appropriate personnel; (2) tag-bearing carcasses of pinnipeds, allowing transmittal of the information to appropriate agencies and personnel; and (3) rare or unusual species of marine mammals for agency follow-up.

Proposed monitoring requirements in relation to GFNMS' abalone research surveys will include observations made by the applicant. Information recorded will include species counts (with numbers of pups/juveniles), numbers of observed disturbances, and descriptions of the disturbance behaviors during the abalone surveys. Observations of unusual behaviors, numbers, or distributions of pinnipeds on the South Farallon Islands will be reported to NMFS and Point Blue so that any potential follow-up observations can be conducted by the appropriate personnel. In addition, observations of tag-bearing pinniped carcasses as well as any rare or unusual species of marine mammals will be reported to NMFS and Point Blue.

If at any time injury, serious injury, or mortality of the species for which take is authorized should occur, or if take of any kind of any other marine mammal occurs, and such action may be a result of the proposed abalone research, GFNMS will suspend research activities and contact NMFS immediately to determine how best to proceed to ensure that another injury or

death does not occur and to ensure that the applicant remains in compliance with the MMPA.

A draft final report must be submitted to NMFS Office of Protected Resources within 60 days after the conclusion of the 2015 field season or 60 days prior to the start of the next field season if a new IHA will be requested. The report will include a summary of the information gathered pursuant to the monitoring requirements set forth in the IHA. A final report must be submitted to the Director of the NMFS Office of Protected Resources and to the NMFS West Coast Regional Administrator within 30 days after receiving comments from NMFS on the draft final report. If no comments are received from NMFS, the draft final report will be considered to be the final report.

Estimated Take by Incidental Harassment

Except with respect to certain activities not pertinent here, the MMPA defines “harassment” as: any act of pursuit, torment, or annoyance which (i) has the potential to injure a marine mammal or marine mammal stock in the wild [Level A harassment]; or (ii) has the potential to disturb a marine mammal or marine mammal stock in the wild by causing disruption of behavioral patterns, including, but not limited to, migration, breathing, nursing, breeding, feeding, or sheltering [Level B harassment].

All anticipated takes would be by Level B harassment, involving temporary changes in behavior. The proposed mitigation and monitoring measures are expected to minimize the possibility of injurious or lethal takes such that take by injury, serious injury, or mortality is considered remote. Animals hauled out close to the actual survey sites may be disturbed by the presence of biologists and may alter their behavior or attempt to move away from the researchers. No motorized equipment is involved in conducting the proposed abalone monitoring surveys.

As discussed earlier, NMFS considers an animal to have been harassed if it moved greater than 1 m (3.3 ft) in response to the researcher's presence or if the animal was already moving and changed direction and/or speed, or if the animal flushed into the water. Animals that became alert without such movements were not considered harassed. The distribution of pinnipeds hauled out on beaches is not consistent throughout the year. The number of marine mammals disturbed will vary by month and location. PRBO (now Point Blue) obtains weekly counts of pinnipeds on the South Farallon Islands, dating back to the early 1970s. GFNMS used data collected by PRBO in January 2012 and 2013 to estimate the number of pinnipeds that may potentially be taken by Level B (behavioral) harassment. Table 3 in GFNMS' IHA application and Table 1 here present the maximum numbers of California sea lions, harbor seals, northern elephant seals, northern fur seals, and Steller sea lions that may be present at the various sampling sites during the proposed activity timeframe under this proposed IHA. Based on this information, NMFS proposes to authorize the take, by Level B harassment only, of 7,126 California sea lions, 119 harbor seals, 66 northern elephant seals, 124 northern fur seals, and 112 Steller sea lions. These numbers are considered to be maximum take estimates; therefore, actual take may be slightly less if animals decide to haul out at a different location for the day or animals are out foraging at the time of the survey activities.

Analysis and Preliminary Determination

Negligible Impact

Negligible impact is "an impact resulting from the specified activity that cannot be reasonably expected to, and is not reasonably likely to, adversely affect the species or stock through effects on annual rates of recruitment or survival" (50 CFR 216.103). A negligible impact finding is based on the lack of likely adverse effects on annual rates of recruitment or

survival (i.e., population-level effects). An estimate of the number of Level B harassment takes, alone, is not enough information on which to base an impact determination. In addition to considering estimates of the number of marine mammals that might be “taken” through behavioral harassment, NMFS must consider other factors, such as the likely nature of any responses (their intensity, duration, etc.), the context of any responses (critical reproductive time or location, feeding, migration, etc.), as well as the number and nature of estimated Level A harassment takes, the number of estimated mortalities, effects on habitat, and the status of the species.

No injuries or mortalities are anticipated to occur as a result of GFNMS’ rocky intertidal monitoring work and searching for black abalone, and none are proposed to be authorized. The behavioral harassments that could occur would be of limited duration, as researchers will only conduct sampling over a period of 8 days. Additionally, each site is sampled for approximately 3-4 hours before moving to the next sampling site. Therefore, disturbance will be limited to a short duration, allowing pinnipeds to reoccupy the sites within a short amount of time.

Some of the pinniped species use the islands to conduct pupping and/or breeding. However, with the exception of northern elephant seals, GFNMS will conduct its abalone site sampling outside of the pupping/breeding seasons. GFNMS has proposed measures to minimize impacts to northern elephant seals nursing or tending to dependent pups. Such measures will avoid mother/pup separation or trampling of pups.

Table 1. Estimated number of animals to be disturbed at each sampling site during from January 16-23 January 2015, 2012 and 2013 maximum daily counts for January based on maximum daily counts of pinnipeds estimated from PRBO monitoring data and the total proposed number of Level B harassment takes to be authorized for each species.

	East Landing & Blowhole Peninsula	North Landing & Fisherman's Bay	Dead Sea Lion Flat	Mussel Flat	Low Arch	Weather Service Peninsula	Raven's Cliff	Indian Head	Shell Beach	Drunk Uncle Islet & Pelican Bowl	
CA Sea Lion January 2012	0	497	539	941	620	250	871	1153	1655	600	
CA Sea Lion January 2013	0	251	464	192	569	153	220	675	732	169	
Maximum	0	497	539	941	620	250	871	1153	1655	600	7126
Harbor Seal January 2012	8	6	0	38	0	0	0	0	0	0	
Harbor Seal January 2013	14	20	10	73	0	2	0	0	0	0	
Maximum	14	20	10	73	0	2	0	0	0	0	119
N. Elephant Seal January 2012	0	4	0	2	29	0	0	15	7	0	
N. Elephant Seal January 2013	0	4	4	7	25	0	0	8	0	0	
Maximum	0	4	4	7	29	0	0	15	7	0	66
N. Fur Seal January 2012	0	0	0	0	0	0	0	62	0	0	
N. Fur Seal January 2013	0	0	0	0	0	0	0	20	0	0	
Maximum	0	0	0	0	0	0	0	62	0	0	124*
Steller Sea Lion January 2012	0	0	8	2	0	0	8	17	23	0	
Steller Sea Lion January 2013	0	2	30	13	1	0	2	35	17	0	
Maximum	0	2	30	13	1	0	8	35	23	0	112
MAXIMUM TOTAL											7547

***A high but undetermined population growth rate for northern fur seals on the South Farallon Islands is anticipated. Therefore, the maximum total for fur seals has been doubled.**

None of the five marine mammal species anticipated to occur in the proposed activity area are listed as threatened or endangered under the ESA. Taking into account the mitigation measures that are planned, effects to marine mammals are generally expected to be restricted to short-term changes in behavior or temporary abandonment of haulout sites, falling within the MMPA definition of “Level B harassment.” Pinnipeds are not expected to permanently abandon any area that is surveyed by researchers, as is evidenced by continued presence of pinnipeds at the sites during annual monitoring counts. Based on the analysis contained herein of the likely effects of the specified activity on marine mammals and their habitat, and taking into consideration the implementation of the proposed mitigation and monitoring measures, NMFS preliminarily finds that the total marine mammal take from GFNMS’ rocky intertidal monitoring program will not adversely affect annual rates of recruitment or survival and therefore will have a negligible impact on the affected species or stocks.

Small Numbers

Table 2 in this document presents the abundance of each species or stock, the proposed take estimates, and the percentage of the affected populations or stocks that may be taken by harassment. Based on these estimates, GFNMS would take less than 1% of each species or stock, with the exception of the California sea lion, which would result in an estimated take of 2.4% of the stock. Because these are maximum estimates, actual take numbers are likely to be lower, as some animals may select other haulout sites the day the researchers are present.

Table 2. Population abundance estimates, total proposed Level B take, and percentage of population that may be taken for the potentially affected species during the proposed rocky intertidal monitoring program.

Species	Abundance*	Total Proposed Level B Take	Percentage of Stock or Population
Harbor Seal	30,196	119	0.4
California Sea Lion	296,750	7,126	2.4
Northern Elephant Seal	124,000	66	0.05
Steller Sea Lion	63,160 to 78,198	112	0.1-0.2
Northern Fur Seal	12,844	124*	0.01

*Abundance estimates are taken from the 2013 U.S. Pacific Marine Mammal Stock Assessments (Carretta et al., 2014) and 2013 Alaska Marine Mammal Stock Assessments (Allen and Anglis, 2014)

Impact on Availability of Affected Species or Stock for Taking for Subsistence Uses

There are no relevant subsistence uses of marine mammals implicated by this action.

Therefore, NMFS has determined that the total taking of affected species or stocks would not have an unmitigable adverse impact on the availability of such species or stocks for taking for subsistence purposes.

Endangered Species Act (ESA)

None of the marine mammals for which incidental take is proposed are listed as threatened or endangered under the ESA. Therefore, NMFS has determined that issuance of the proposed IHA to GFNMS under section 101(a)(5)(D) of the MMPA will have no effect on species listed as threatened or endangered under the ESA.

National Environmental Policy Act (NEPA)

In 2012, we prepared an Environmental Assessment (EA) analyzing the potential effects to the human environment from conducting rocky intertidal surveys along the California and Oregon coasts and issued a Finding of No Significant Impact (FONSI) on the issuance of an IHA for GFNMS' rocky intertidal surveys in accordance with section 6.01 of the NOAA Administrative Order 216-6 (Environmental Review Procedures for Implementing the National

Environmental Policy Act, May 20, 1999). GFNMS' proposed activities and impacts for 2015 are within the scope of our 2012 EA and FONSI. We have reviewed the 2012 EA and determined that there are no new direct, indirect, or cumulative impacts to the human and natural environment associated with the IHA requiring evaluation in a supplemental EA and we, therefore, intend to reaffirm the 2012 FONSI.

Proposed Authorization

As a result of these preliminary determinations, NMFS proposes to authorize the take of marine mammals incidental to GFNMS' rocky intertidal and black abalone monitoring research activities, provided the previously mentioned mitigation, monitoring, and reporting requirements are incorporated. The proposed IHA language is provided next.

This section contains a draft of the IHA itself. The wording contained in this section is proposed for inclusion in the IHA (if issued).

1. This IHA is valid from January 10, 2015, through January 30, 2015.
2. This IHA is valid only for specified activities associated with rocky intertidal monitoring surveys at specific sites Southeast Farallon and West End Islands, CA.
3. General Conditions
 - a. A copy of this IHA must be in the possession of personnel operating under the authority of this authorization.
 - b. The incidental taking of marine mammals, by Level B harassment only, is limited to the following species:
 - i. 119 harbor seal (*Phoca vitulina richardii*);
 - ii. 7,126 California sea lion (*Zalophus californianus*);
 - iii. 66 northern elephant seal (*Mirounga angustirostris*);

iv. 24 northern fur seal (*Callorhinus ursinus*); and

v. 112 Steller sea lion (*Eumetopias jubatus*).

c. The taking by injury (Level A harassment), serious injury, or death of any of the species listed in condition 3(b) of the IHA or any taking of any other species of marine mammal is prohibited and may result in the modification, suspension, or revocation of this IHA.

4. Mitigation Measures: In order to ensure the least practicable impact on the species listed in condition 3(b), the holder of this IHA is required to implement the following mitigation measures:

a. Field biologists must approach study sites cautiously and quietly, such that any disturbance of pinnipeds is minimized. The pathway and rate of approach must be chosen judiciously, avoiding to the extent possible any deliberate approach of hauled-out pinnipeds. If deliberate approach is unavoidable, field biologists must approach gradually such that stampeding of pinnipeds is avoided. Specific care must be taken to avoid any disturbance that may place pinniped pups at risk. Site visits should be limited to no more than 6 hours in the absence of extenuating circumstances, and personnel shall vacate the area as soon as sampling of the site is completed.

b. GFNMS staff shall coordinate sampling efforts with other permitted activities (i.e., Point Blue and the U.S. Fish and Wildlife Service).

c. Staff shall use binoculars to detect pinnipeds before close approach to avoid being seen by the animals.

d. Staff shall monitor the offshore area for predators (such as killer whales and white sharks) and avoid flushing of pinnipeds when predators are observed in nearshore waters.

e. Staff shall reschedule work at sites where pups are present, unless other means to

accomplishing the work can be done without causing disturbance to mothers and dependent pups.

f. In the event of finding pinnipeds breeding or nursing, GFNMS staff shall redirect activities to sites where these life function behaviors are not occurring.

5. Monitoring: The holder of this IHA is required to conduct monitoring of marine mammals present at study sites prior to approaching the sites.

a. Information to be recorded shall include the following:

i. Species counts (with numbers of pups/juveniles); and

ii. Numbers of disturbances, by species and age, according to a three-point scale of intensity including (1) Head orientation in response to disturbance, which may include turning head towards the disturbance, craning head and neck while holding the body rigid in a u-shaped position, or changing from a lying to a sitting position and/or slight movement of less than 1 m; “alert”; (2) Movements in response to or away from disturbance, typically over short distances (1-3 m) and including dramatic changes in direction or speed of locomotion for animals already in motion; “movement”; and (3) All flushes to the water as well as lengthier retreats (> 3 m); “flight”.

6. Reporting: The holder of this IHA is required to:

a. Report observations of unusual behaviors, numbers, or distributions of pinnipeds, or of tag-bearing carcasses, to Point Blue and NMFS Southwest Fisheries Science Center (SWFSC).

b. Submit a draft monitoring report to NMFS Office of Protected Resources within 60 days after the conclusion of the 2015 field season or 60 days prior to the start of the next field season if a new IHA will be requested. A final report shall be prepared and submitted within 30 days following resolution of any comments on the draft report from NMFS. This report must

contain the informational elements described above, at minimum.

c. Reporting injured or dead marine mammals:

i. In the event that the specified activity clearly causes the take of a marine mammal in a manner prohibited by this IHA, such as an injury (Level A harassment), serious injury, or mortality, GFNMS shall immediately cease the specified activities and report the incident to the Office of Protected Resources (301-427-8401), NMFS, and the Southwest Regional Stranding Coordinator (562-980-3230), NMFS. The report must include the following information:

1. Time and date of the incident;
2. Description of the incident;
3. Environmental conditions (e.g., wind speed and direction, Beaufort sea state, cloud cover, and visibility);
4. Description of all marine mammal observations in the 24 hours preceding the incident;
5. Species identification or description of the animal(s) involved;
6. Fate of the animal(s); and
7. Photographs or video footage of the animal(s).

Activities shall not resume until NMFS is able to review the circumstances of the prohibited take. NMFS will work with GFNMS to determine what measures are necessary to minimize the likelihood of further prohibited take and ensure MMPA compliance. PISCO may not resume the activities until notified by NMFS.

ii. In the event that an injured or dead marine mammal is discovered and it is determined that the cause of the injury or death is unknown and the death is relatively recent (e.g., in less than a moderate state of decomposition), GFNMS shall immediately report the incident to the Office of Protected Resources, NMFS, and the Southwest Regional Stranding Coordinator,

NMFS. The report must include the same information identified in 6(c)(i) of this IHA.

Activities may continue while NMFS reviews the circumstances of the incident. NMFS will work with GFNMS to determine whether additional mitigation measures or modifications to the activities are appropriate.

iii. In the event that an injured or dead marine mammal is discovered and it is determined that the injury or death is not associated with or related to the activities authorized in the IHA (e.g., previously wounded animal, carcass with moderate to advanced decomposition, or scavenger damage), GFNMS shall report the incident to the Office of Protected Resources, NMFS, and the Southwest Regional Stranding Coordinator, NMFS, within 24 hours of the discovery. GFNMS shall provide photographs or video footage or other documentation of the stranded animal sighting to NMFS. Activities may continue while NMFS reviews the circumstances of the incident.

7. This IHA may be modified, suspended or withdrawn if the holder fails to abide by the conditions prescribed herein or if NMFS determines the authorized taking is having more than a negligible impact on the species or stock of affected marine mammals.

Request for Public Comments

NMFS requests comment on our analysis, the draft authorization, and any other aspect of

the Notice of Proposed IHA for GFNMS' proposed rocky intertidal monitoring program. Please include with your comments any supporting data or literature citations to help inform our final decision on GFNMS' request for an MMPA authorization.

Dated: November 26, 2014.

Donna S. Wieting,
Director,
Office of Protected Resources,
National Marine Fisheries Service.

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